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FOREWORD

This manual contains maintenance and repair procedure for the 2012 INFINITI G Sedan.

In order to assure your safety and the efficient functioning of the vehicle, this manual should be read thoroughly. It is especially important that the PRECAUTIONS in the GI section be completely understood before starting any repair task.

All information in this manual is based on the latest product information at the time of publication. The right is reserved to make changes in specifications and methods at any time without notice.

IMPORTANT SAFETY NOTICE

The proper performance of service is essential for both the safety of the technician and the efficient functioning of the vehicle. The service methods in this Service Manual are described in such a manner that the service may be performed safely and accurately. Service varies with the procedures used, the skills of the technician and the tools and parts available. Accordingly, anyone using service procedures, tools or parts which are not specifically recommended by NISSAN must first be completely satisfied that neither personal safety nor the vehicle's safety will be jeopardized by the service method selected.



-	SERVICE MANUAL BETTER!
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FAX: (248) 488-3880	
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Please describe any Service Manual issues or problems in d	
Page number(s) Note: Please include a	a copy of each page, marked with your comments.
Are the trouble diagnosis procedures logical and easy to	
If no, what page number(s)?Note: Please include	
Please describe the issue or problem in detail:	
Is the organization of the manual clear and easy to follow	w? (circle your answer) YES NO
Please comment:	
What information should be included in INFINITI Service	Manuals to better support you in servicing or
repairing customer vehicles?	
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CITY: STATE/PROV./COUNTRY:	ZIP/POSTAL CODE:

QUICK REFERENCE CHART G SEDAN

QUICK REFERENCE CHART G SEDAN ENGINE TUNE-UP DATA (VQ37VHR)

Engine model			VQ37VHR
Firing order			1-2-3-4-5-6
ldle speed A/T (In "P or N" position) M/T (In Neutral position)		rpm	650 ± 50
Ignition timing A/T (In "P or N" position) M/T (In Neutral position)			$10^{\circ} \pm 5^{\circ}$
Tension of drive belt			Belt tension is not necessary, as it is automatically adjusted by drive belt auto-tensioner.
Radiator cap relief pressur	e kF	Pa (kg/cm ² , psi)	
	Standard		122.3 - 151.7 (1.2 - 1.5, 18 - 22)
	Limit		107 (1.1, 16)
Cooling system leakage te	sting pressure kF	Pa (kg/cm ² , psi)	157 (1.6, 23)
Compression pressure	kF	Pa (kg/cm ² , psi)/rpm	
	Standard		1,667 - 2,354 (17 - 24, 242 - 341)/200
	Minimum		1,226 (12.5, 178)/200
	Differential limit be	etween cylinders	98 (1.0, 14)/200
	Make		DENSO
Spark plug (Iridium-tipped type)	Standard type		FXE24HR11
	Gap (Nominal)	mm (in)	1.1 (0.043)

ENGINE TUNE-UP DATA (VQ25HR)

Engine model		VQ25HR
Firing order		1-2-3-4-5-6
Idle speed A/T (In "P or N" position)	rp	m 650 ± 50
Ignition timing A/T (In "P or N" position)		$14^{\circ} \pm 2^{\circ}$
Tension of drive belt		Belt tension is not necessary, as it is automatically adjusted by drive belt auto-tensioner.
Radiator cap relief pressu	re kPa (kg/cm ² , psi)	
	Standard	122.3 - 151.7 (1.2 - 1.5, 18 - 22)
	Limit	107 (1.1, 16)
Cooling system leakage to	esting pressure kPa (kg/cm ² , psi)	157 (1.6, 23)
Compression pressure	kPa (kg/cm ² , psi)/rpm	-
	Standard	1,320 (13.5, 191)/300
	Minimum	1,030 (10.5, 149)/300
	Differential limit between cylinders	100(1.0, 14.5)/300
	Make	DENSO
Spark plug (Iridium-tipped type)	Standard type	FXE22HR11
	Gap (Nominal) mm (in)	1.1 (0.043)

2012

PFP:00000

ELS0003W

ELS0003W

FRONT WHEEL ALIGNMENT 2WD

Applied mo	odel		Except for sports models	For sports models
		Minimum	−1° 05′ (–1.08°)
Camber		Nominal	-0° 20′ (–0.33°)
Degree mii	nute (Decimal degree)	Maximum	0° 25′ (0.42°)	
		Left and right difference	0° 33′ (0.5	5°) or less
		Minimum	3° 50′ (3.83°)	3° 55′ (3.92°)
Caster		Nominal	4° 35′ (4.58°)	4° 40′ (4.67°)
Degree minute (Decimal degree)		Maximum	5° 20′ (5.33°)	5° 25′ (5.42°)
		Left and right difference	0° 39′ (0.65°) or less	
		Minimum	6° 35′ (6.58°)
Kingpin inc Dearee mii	lination nute (Decimal degree)	Nominal	7° 20′ (7.33°)	
bogroo mi		Maximum	8° 05′ (8.08°)	
		Minimum	Out 1 mm (0	Dut 0.03 in)
	Total toe-in Distance	Nominal	In 1 mm (In 0.04 in)	
	Distance	Maximum	In 3 mm (In 0.11 in)	
Toe-in -		Minimum	Out 0° 04' 48" (Out 0.08°)	
	Total toe-angle Degree minute (Decimal degree)	Nominal	In 0° 04′ 48″ (In 0.08°)	
		Maximum	In 0° 15′ 00″ (In 0.25°)	

Measure value under unladen* conditions.

*: Fuel, engine coolant and lubricant are full. Spare tire, jack, hand tools and mats are in designated positions.

AWD

Wheel size	9		17 inch	18 inch
Camber Degree minute (Decimal degree)		Minimum	-1° 10′ (-	-1.16°)
		Nominal	-0° 25′ (-	-0.42°)
		Maximum	0° 20′ (0).33°)
		Left and right difference	0° 33′ (0.55°) or less	
		Minimum	3° 20′ (3.34°)	3° 25′ (3.42°)
Caster		Nominal	4° 05′ (4.08°)	4° 10′ (4.17°)
Degree minute (Decimal degree)		Maximum	4° 50′ (4.83°)	4° 55′ (4.91°)
		Left and right difference	0° 39′ (0.65°) or less	
		Minimum	6° 40′ (6	δ.67°)
Kingpin inc Degree mi	clination nute (Decimal degree)	Nominal	7° 25′ (7.42°)	
Dogroom		Maximum	8° 10′ (8.16°)	
		Minimum	Out 1 mm (O	ut 0.03 in)
	Total toe-in Distance	Nominal	In 1 mm (Ir	0.04 in)
Taain	Diotaneo	Maximum	In 3 mm (In 0.11 in)	
Toe-in		Minimum	Out 0° 04' 48" (Out 0.08°)	
Total toe-angle Degree minute (Decimal degree)		Nominal	In 0° 04′ 48″ (In 0.08°)	
		Maximum	ln 0° 15′ 00″ (ln 0.25°)	

Measure value under unladen* conditions.

*: Fuel, engine coolant and lubricant are full. Spare tire, jack, hand tools and mats are in designated positions.

QUICK REFERENCE CHART G SEDAN

REAR WHEEL ALIGNMENT

Applied model		2WD		AWD	
		Except for sports models	For sports models	AVUD	
Minimum		-1° 20′ (-1.33°)	–1° 25′	(–1.42°)	
Camber Degree n	ninute (Decimal degree)	Nominal	-0° 50′ (-0.83°)	–0° 55′	(–0.92°)
5 (5)		Maximum	-0° 20′ (-0.33°) -0° 25′ (-0.42°)		(–0.42°)
		Minimum	0 mm (0 in)		
	Total toe-in Distance	Nominal	In 2.8 mm (In 0.110 in)		
		Maximum	In 5	.6 mm (In 0.220 in)	
106-111	Toe-in		0° 00′ (0.00°)		
	Total toe-angle Degree minute (Decimal degree)	Nominal	ln 0° 14′ 24″ (ln 0.24°)		
5 (5 ,		Maximum	In C)° 28′ 12″ (In 0.47°)	

Measure value under unladen* conditions.

*: Fuel, engine coolant and lubricant are full. Spare tire, jack, hand tools and mats are in designated positions.

BRAKE PEDAL

	Unit: mm (in)
Brake pedal height	171.5 - 181.5 (6.75 - 7.15)
Depressed brake pedal height [Depressing 490 N (50 kg, 110 lb) while turning the engine ON]	124.0 (4.88) or more

FRONT DISC BRAKE

2 Piston Type

Unit: mm (in)

Brake pad	Wear limit thickness	2.0 (0.079)
Disc rotor	Wear limit thickness	26.0 (1.024)

4 Piston Type

		Unit: mm (in)
Brake pad	Wear limit thickness	2.0 (0.079)
Disc rotor	Wear limit thickness	30.0 (1.181)

REAR DISC BRAKE

1 Piston Type

		Unit: mm (in)
Brake pad	Wear limit thickness	2.0 (0.079)
Disc rotor	Wear limit thickness	14.0 (0.551)

2 Piston Type

Unit: mm (in)

Brake pad	Wear limit thickness	2.0 (0.079)
Disc rotor	Wear limit thickness	18.0 (0.709)

ELS0003Y

QUICK REFERENCE CHART G SEDAN

REFILL CAPACITIES

ELS00040

UNIT			Liter	US measure
Fuel tank			75.6	20 gal
Engine coolant (With reservoir tank) at MAX level	VQ25HR	2WD models	8.3	8-6/8 qt
		AWD models	8.8	9-2/8 qt
	VQ37VHR	A/T models	8.5	9 qt
		M/T models	8.6	9-1/8 qt
Engine oil	VQ25HR	Drain and refill		
		With oil filter change	4.7	5 qt
		Without oil filter change	4.4	4-5/8 qt
		Dry engine (Overhaul)	5.4	5-6/8 qt
	VQ37VHR	Drain and refill		
		With oil filter change	4.9	5-1/8 qt
		Without oil filter change	4.6	4-7/8 qt
		Dry engine (Overhaul)	5.7	6 qt
Transmission	A/T		9.2	9-3/4 qt
	M/T		2.83	6 pt
Transfer			1.0	2-1/8 pt
Final drive	Front		0.65	1-3/8 pt
	Rear		1.4	3 pt
Power steering system			1.0	1-1/8 qt
Air conditioning system	Compressor oil		0.15	5.07 fl oz
	Refrigerant		0.55 kg	1.21 lb